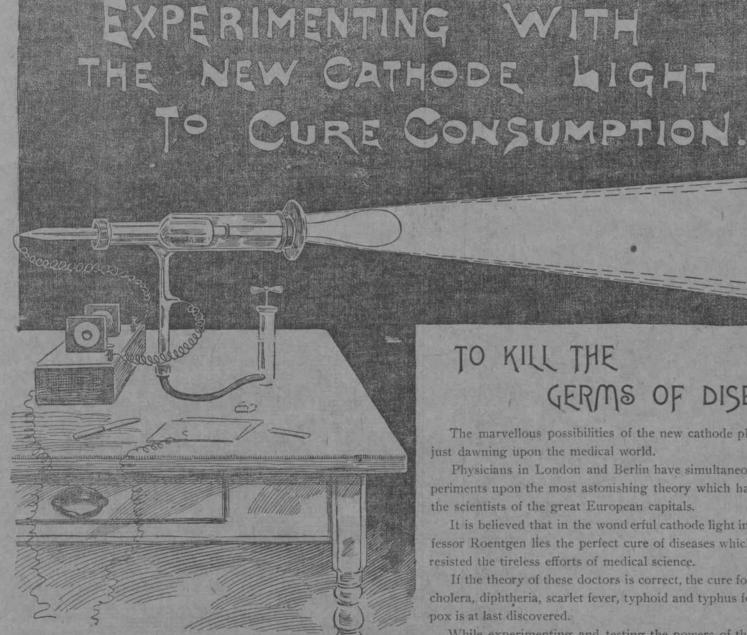
Pages 25 to 40="I'HE JOURNAL.=Pages 25 to 40.

THE AMAZING POSSIBILIBIES OF PROFESSOR ROENBGEN'S GREAT DISCOVERY.



A NIGHT WITH WIZARD EDISON IN HIS WORKSHOP.

Watching the Tireless Inventor While He Experiments with the Mysterious New Cathode Light in the Hope of Photographing the Human Brain,

stars. The white cottages on either side of ness of the atmosphere like that which fol-the road looked like prim ghosts in the lows a thunder storm. It seemed a part of clear light, and from an occasional upper the mystical violet bubble itself, and Mr. window a dim lamp sent a faint, spectral Edison afterward told me that this was ray across the thin glaze of snow which one of the effects of experimenting with covered the soft ground. The quiet was the light.

kept endless vigil over the wonderful, new cathode ray with the purpose of utilizing it for research and examination of the still of wood, photographic plates, wire attachmore wonderful human brain. Through ments and tubes, The room was narrow one night I was to watch with him over and lighted by electric bulbs from the cellthe dancing violet light that puzzies even lng and the walls.

The nervous tension and the loss of sleep this great sorcerer of modern times.

and decay and the grave. It was a towering winged his gatekeeper, manage to intrude upon

The unseeing eyes beneath a triumphant his black hair, only touched with gray,

which burned upon the hearth. THE WIZARD AT WORK.

the pallid, unshaven man with solled hands and rumpled hair who sat at a pine table at which I had ben gazing.

Neither can I guarantee will not drive you crazy."

"What will it be like?" I

him at a globular tube of light which, when my eyes rested upon it, made me for the time forget the man I had come to see.

It was as beautiful as the very vital pringle glomeration of gases. You see, here I'm glomeration of gases. You see, here I'm "Will there be

glimmer of monilight, the fire of opal, the fascination of flame, all these bubbled and sparkled and danced in that small globe where violet and rose and purple and taway gold fought for the mastery—elusive, subtle, sinister, perishing one moment that point at any time. See here and that point at any time. See here and

ment and in light gleamed and glimmered got to photographing through this thick, with black, in that magic flame. It fascinated me like ness of wood. You understand we are not the fire in a gen or the gilnt in the eye making brain photograph experiments now; said.

of a snake. If the rosy spark that larks we are merely making experiments as to "Is it good?" asked the Wizard, eagerly. and made late liquid light, I should im- will penetrate."

Edison's laboratory at Orange, N. J. The air of the room, I noticed, was singu Liewellyn Park was asleep under the larly fresh and clear. There was a light-

DEEP IN HIS STUDIES.

I knew that for days and nights he had He did not notice my entrance. He

I was to wait from the first hour of and lack of food which the inventor has morning until the dawn, expecting that cach moment would bring forth the clucidation of this new force, which some science prophers say is the elixir of life literat and soul and brain and body are conliself, to triumph over disease and death centrated on his present researches to such an extent that frequently he looks As I entered the recption rooms of the up as though waked abruptly from his laboratory I could at first see but the central figure, which seemed to dominate the the people who, by cluding the vigilance of

The unseeing eyes beneath a triumphant brown tooked out upon thousands of volumes and portraits of great mea. Models of electric motors and sections of cable by the hundred were about the room, which was luxurlous with rare Eastern rugs and eyes, rimmed as they were with hollow tissues of the head.

"And you will proall his old clothes and his work-stained be the very first?" hands, there was an air of grandenr about

as innocent of luxury and decoration as As I stood upon the threshold, feeling by those where his men were working with like a guilty intruder, he glanced up and Been

"Oh, what a beautiful light it is?" I ex-

It was as beautiful as the very vital principle of light itself condensed in one small photographing a clock through all these space. The glory of dawn and sunset, the glumer of moonlight, the fire of onal, the the works of an ordinary clock placed talk for an nour."

"Will there be any sensation?"

"These are the tubes used for photographing a clock through all these space. The glory of dawn and sunset, the glumer of moonlight, the fire of onal, the the works of an ordinary clock to the work room."

"There are the tubes used for photographing the brain," said Mr. Edison, and he impleasant one, at all events."

to blaze forth the next in terrine splender. he took up a piece of wood formed of lay-

TO KILL THE GERMS OF DISEASE.

The marvellous possibilities of the new cathode photography are just dawning upon the medical world.

Physicians in London and Berlin have simultaneously begun experiments upon the most astonishing theory which has ever startled the scientists of the great European capitals.

It is believed that in the wond erful cathode light invented by Professor Roentgen lies the perfect cure of diseases which have hitherto resisted the tireless efforts of medical science.

If the theory of these doctors is correct, the cure for consumption, cholera, diphtheria, scarlet fever, typhoid and typhus fever and smallpox is at last discovered.

While experimenting and testing the powers of the new cathode light, the Berlin scientists found that its rays possessed many of the properties of sunlight. By spectrum analysis it was proved that the cathode rays registered a strong violet-stronger than the violet rays

Professor Marshall Hall, the eminent British scientist, proved long ago that rays of sunlight destroyed the germs of disease. The deadly microbes of the most fatal maladies were killed by exposure to the sun's rays. Experimenting further, Professor Marshall Hall found that the violet rays were the germicide rays.

When the laboratory experiments of the German scientists brought out the fact that the new cathode light showed the same chemical compostion as the violet rays of sunshine the medical men knew what this discovery meant. They knew that at last they had within their grasp a light which can penetrate to the interior organs of the human body, and carry along with it the power to destroy the microbes of disease.

This is what the physicians of London and Berlin are how earn-

If this marvellous cathode light, which pierces clothes and flesh (but not bones), still carries along through the outer covering of the body the germicide rays of sunlight-if, in other words, the mere flooding of the lungs with the new cathode light destroys the germs of tuberculosis-then the cure of consumption has been found!

If the penetrating flashes of the cathode light can illuminate the bowels and intestines with a chemical ray deadly to the cholera bacillus—then cholera is a disease no longer to be feared!

If the fevered blood vessels and arteries which burn with the bacilli of typhus, typhoid or scarlet fever can be flushed with the germicide rays of the cathode light-then these diseases are within the easy grasp of modern science.

With the entire world of science and medicine concentrating its skill and ingenuity on the possibilities of the new cathode light, no one can foretell what the laboratory experiments of Europe and America will bring forth.

The inventor threw back his head and Edison's eyes shope, and he laughed "I have been testing tubes to-night," he

"Oh, no! That is only when sections of the brain are to be photographed," ANOTHER SUCCESS ACHIEVED.

Just then a young man in his shirt surface of the head." All that is most radiant in color, in move- ers fastened one upon the other- we have sleeves came in with a glass plate smeared

in the heart of an opal could be vitalized the thickness and density that the rays and he got up and took the plate from the

THE WIZARD AT WORK.
But the workroom where I found Editors working more than which was something more than the working with the workroom where I found Editor. Are you a Democrat?

Son deep in his study of the new ray was an innecent of linxury and decoration as innecent of linxury and decoration as those where his men were working with those where his men were working with those where his men were working with him through the night.

As I stood upon the threshold, feeling broudly.

Social and an innecent of linxury and decoration as those where his men were working with those where his men were working with those where his men were working with those where his mere garb and grooming.

As I stood upon the threshold, feeling broudly.

Social an an unich was something more than mere garb and grooming.

As I stood upon the threshold, feeling broudly.

Social an an unich was something more than mere garb and grooming.

As I stood upon the threshold, feeling broudly.

Social an an unich was a please of eard, this steel, this steel, this was and started of for his say may be to the man which has speriment mere garb and grooming.

As I stood upon the threshold, feeling broudly.

Social and this linguage of for his skeel, this before each bulb's form the case of the fringe of the case of the fringe of the case of the fringe of the steel, this steel,

head still. "And you can't move and can't He handed the plate back to the young of them. ray emitting electrodes will form a surface the plate to prevent induction. large enough in combination to furnish parallel rays which will cover the entire surface of the head."

"Do you think these wonderful X rays to can be utilized in the location and cure of disease?" I asked him.

"Can you take the skull showing the "Surely. I see no reason why they can-

EDISON'S LATEST EFFORT.

and showed it to me. "Now, I have this open end softened in a flame and the marrow end swelled out to about half an lach bigger diameter than it would be for a lamp. Then the glass is drawn in and closed up upon a platinum wire, which is

"Now, at one side of the larger part of the bulb the glass is softened and a hole of the glass is softened and a hole of the bulb the glass is softened and a hole of the bulb the glass is softened and a hole of the bulb the glass is softened and a hole of the bulb the glass is softened and a hole of the bulb the glass is softened and a hole of the bulb the glass is softened and a hole of the bulb the glass is softened and a hole of the bulb the glass is softened and

Sometimes I think that the shining nails in the frame make a light within the Mr. Edison likes to wear his old clothes are to be found. A person who is out holder. I have found that celluloid is about the imboratory, and, as I tell you.

issues of the head.

"And you will promise me that mine will be the very first?"

"These stripes that you see across the graphs with them, always using the same surface of the plate are photographs of subjects. These strips of metal are the surface of the plate are photographs "I will; but I want to ask you a quest strips of metal fastened to a piece of eard. hest. They get an even exposure of forty

are great delay and difficulty on account

showed me some about ten inches long and during exposure by the escape of elec-"Shall I have to hold a plate in my one and a half inches in diameter. "These tricity, and for that reason I now place will be placed side by side so that the X a sheet of celluloid between the bulb and

"Another one finished, Mr. Edison," he "That's child's play now," and he is possible that these rays can be used to sterilize water and destroy bacteria. All light is purifying and an enemy to ba-ctill. I shall test the sterilizing qualities "I am trying now," he said, "to find of the ray in this way: Water into which while "Well, Mr. Edison," I said, "I have come "Fine," said the rodne man, and we all duced in these tabes to produce the best be put in two test tubes. In a few days

the bulb the glass is softened and a hole opened, and this is also sealed up upon another platinum wire. Attached to each of these wires and inside of the bulb are aluminum disks about half an luch in diameter. These disks form the positive and negative electrodes between which the electric are plays, producing these wonderful effects.

"Mrs. Edison tries to get him away from would nearly become a popular with the could need the bulb are all sorts of ways. She telephones and sends messages and drives up and calls to take him out, but it's no use. He would leave the place. But he is so good-natured that we all like to work for him no matter how late it is or how early. If he way a like to work for him away from munity on William street. New York has really become a popular distribution of the largest and calls to take him out, but it's no use. He would leave the place. But he is so good-natured that we all like to work for him away from munity on William street.

New York has really become a popular distribution of the largest and calls to take him out, but it's no use. He would leave the place and must be resulted to the work of the work for him away from here in all sorts of ways. She telephones and sends messages and drives up and calls to take him out, but it's no use. He would leave the place but he is so good-natured that we all like to work for him away from here in all sorts of ways. She telephones are leave to take him out, but it's no use. He would leave the place of this "four hundred." These animals are in most cases thembers of the results to take him out, but it's no use. He would leave the place but of the work for him animals are in most cases thembers of the work for him animals are in most cases thembers of the place of the work for him animal such in the positive and sends messages and drives up and calls to take him out, but it's no use. He would leave the place of the violation of the work of the place of the place

pelie of boards that are in one of the experiment rooms. He was curled up on it looking like a tramp when along came one of the hands—one of those funny men. He thought Mr. Edison was one of the work, men taking a snooze and thought it would be a fine joke to wake him. So he took up one of the boards and brought it down with a whack upon Mr. Edison's body. He started up with a yell and—well, you ought to have seen that man hurry away. But Mr. Edison just laughed and saw how it was and started off for his experiments again.

thowed me the plate and laughed with hit over the result.

expect I'll take a good photograph of brain in a day or two with these s." he said. "I've no doubt that I i take one now, but I want to get at methodically and perfectly. You can be that these strips are even more distant these strips are even more distant they were in the last plate."

For were a number of men around Arm, his apparatus. It was surprising to this wonderful patience, his joility, courtesy to the workmen around him tell as to his visitors.

There is, of course, almost as much difference in the homes of wild animals as in those of humanity itself. There is luxury and elegance in the cages of wild animals in New York, and there are unimals living up overty and destination. There are

Sadly Lacking in Independence

finished bulb as a mere point of glass which looks as though placed there for ornamentation.

He pleked one up from a nearby shelf it. and flourishing families of lions, tigers and

losed up upon a platinum wire, which is actually too exhausted to stand longer and have taken up their residences along this up and at it again as hard as ever.

"Mrs. Edison tries to get him away from munity on William street,

"There are many things that I cannot understand about this new ray," he said. "Many of the plates have come out black and spolled, and I can only attribute this to sparks which form about the bulbs."

"We feel as though we took part in are half a dozen establishments on this all these great inventions of Mr. Edison. There which are occupied for the most part to sparks which form about the bulbs."

"The most awful thing happened here a by wild animals. These curious apartment to sparks which form about the bulbs." angel of Italian marble poised upon an only pedestal. In the lean, tenuous hands, raised high above its head, glowed a huge ball of electric fire.

The work a towering winger angel of Italian marble poised upon an only pedestal. In the lean, tenuous hands, the lean the later of the new rays, he lays down to sleep on a battery as compared to the new rays, he lays down to sleep on a battery as compared to the new rays, he lays down to sleep on a battery as compared to the new rays, he lays down to sleep on a battery as compared to the new rays, he lays down to sleep on a battery as compared to the new rays, he lays down to sleep on a battery as compared to the new rays, he lays down to sleep on a battery as compared to the new rays. I showed the lean tenuous hands, the lays down to sleep on a battery as compared to the new rays. I showed four distinct stripes across its surplant. The animals are usually face, each one different in detail.

A TEST OF TUBES. pile of boards that are in one of the ex- secure in cages of various shapes and

s visitors.

aking in the east when I in poverty and destitution. There are of the Wizard. He was feroclous beasts kept as pets in palaces on of still cheerful as he porced over the West Side which live in the height of the fashion and dine regularly on the fast the men had fallen to sleep corners on the lower floor of the land. In contrast with these are the capes of some of the animals in the Wizard met the day with a last the gray light came through the compelled to live to an inglorious of the violet and rose flame in upon the table danced and a smally as ever.

KATE MASTERSON.